CLAIMS

What is claimed is:

- An integrated circuit, comprising:

 an active circuit;
 a metal layer disposed, at least partially, above the active circuit; and
 a bond pad disposed, at least partially, above the metal layer;
 wherein the metal layer is meshed.
- 2. The integrated circuit as recited in claim 1, wherein the active circuit includes an input/output (I/O) bus.
- 3. The integrated circuit as recited in claim 1, wherein the active circuit includes a plurality of transistors.
- 4. The integrated circuit as recited in claim 1, wherein the metal layer includes an interconnect metal layer.
- 5. The integrated circuit as recited in claim 4, wherein the interconnect metal layer interconnects the bond pad with a plurality of underlying metal layers.
- 6. The integrated circuit as recited in claim 5, wherein each of the underlying metal layers are in electrical communication by way of a plurality of vias.
- 7. The integrated circuit as recited in claim 1, wherein the metal layer includes a plurality of openings.

- 8. The integrated circuit as recited in claim 7, wherein the openings are adapted for facilitating an interlock between the metal layer and an inter-metal dielectric layer disposed between the metal layer and the bond pad.
- 9. The integrated circuit as recited in claim 8, wherein the inter-metal dielectric layer is constructed from a material selected from the group consisting of a low-K dielectric material and a fluorinated silica glass (FSG) material.
- 10. The integrated circuit as recited in claim 7, wherein the openings are completely enclosed around a periphery thereof.
- 11. The integrated circuit as recited in claim 7, wherein the openings have a substantially square configuration.
- 12. The integrated circuit as recited in claim 7, wherein the openings define a plurality of substantially linear first portions and a plurality of substantially linear second portions which intersect.
- 13. The integrated circuit as recited in claim 12, wherein the openings define a matrix of openings.
- 14. The integrated circuit as recited in claim 13, wherein a plurality of interconnect vias are formed in rows along the first portions.
- 15. The integrated circuit as recited in claim 14, wherein the interconnect vias are spaced along a length of the first portions.

- 16. The integrated circuit as recited in claim 15, wherein the interconnect vias include one single row for each of the first portions.
- 17. The integrated circuit as recited in claim 15, wherein the interconnect vias include at least two spaced rows for each of the first portions.
- 18. The integrated circuit as recited in claim 17, wherein a width of the first portions is enlarged to accommodate the at least two spaced rows for each of the first portions.
- 19. A method for fabricating an integrated circuit, comprising: constructing an active circuit on a semiconductor platform; depositing a metal layer, at least partially, above the active circuit; and forming a bond pad, at least partially, above the metal layer; wherein the metal layer is meshed.
- 20. An integrated circuit, comprising:

 an active circuit means for processing electrical signals;

 a metal layer disposed, at least partially, above the active circuit means and including a mesh means for preventing damage incurred during a bonding process; and a bond pad disposed, at least partially, above the metal layer.
- 21. An integrated circuit, comprising:

a semiconductor structure including an active circuit including an input/output (I/O) bus and a plurality of transistors forming a core of circuits;

a plurality of vertically spaced underlying metal layers disposed, at least partially, under the active circuit and around a periphery thereof, wherein each of the underlying metal layers are in electrical communication by way of a plurality of underlying vias with the active circuit and other underlying metal layers;

a meshed interconnect metal layer disposed, at least partially, above the I/O bus of the active circuit and around a periphery thereof, the interconnect metal layer being in electrical communication with the underlying metal layers by way of a plurality of additional vias;

an inter-metal dielectric layer disposed, at least partially, above the interconnect metal layer, the inter-metal dielectric layer constructed from a material selected from the group consisting of a low-K dielectric material and a fluorinated silica glass (FSG) material;

a top metal layer disposed, at least partially, above the inter-metal dielectric layer, the top metal layer for serving as a bond pad, the top metal layer being in electrical communication with the interconnect metal layer by way of a plurality of interconnect vias; and

a passivation layer disposed, at least partially, above the top metal layer.

wherein the interconnect metal layer is meshed for preventing damage incurred

during a bonding process.

22. A system, comprising:

- a bus;
- a display in communication with the bus;
- a memory in communication with the bus; and

an integrated circuit in communication with the display and the memory via the bus, the integrated circuit including an active circuit; a metal layer disposed, at least partially, above the active circuit; and a bond pad disposed, at least partially, above the metal layer; wherein the metal layer is meshed.

23. The system as recited in claim 22, wherein the system includes a general computer.

- 24. The system as recited in claim 22, wherein the system includes a game console.
- 25. The system as recited in claim 22, wherein the integrated circuit is selected from the group consisting of a central processing unit, a graphics processing unit, and one of a plurality of integrated circuits included in a chipset.
- 26. The system as recited in claim 22, wherein the system includes a circuit board.